Tana-Chemie GmbH
Werner & Mertz Group

# GREASE POWER

**WM 0713619** **Order number: 0713603**

Version 9.13 Revision Date 13.03.2025 Print Date 21.10.2025

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

| | | |
|---|---|---|
| Trade name | : | GREASE POWER |
| UFI | : | 2K03-1016-Q00C-3GK4 |

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| | | |
|---|---|---|
| Use of the Substance/Mixture | : | Cleaning agent<br><br>Restricted to professional users. |

### 1.3 Details of the supplier of the safety data sheet

| | | |
|---|---|---|
| Company | : | Tana Chemie GmbH<br>Rheinallee 96<br>55120 Mainz |
| Telephone | : | +49613196403 |
| Telefax | : | +4961319642414 |
| E-mail address | : | Produktsicherheit@werner-mertz.com |
| Responsible/issuing person | | |
| Contact person | : | Product development / product safety |

### 1.4 Emergency telephone number

+49(0)551-19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

| | |
|---|---|
| Skin corrosion, Category 1A | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :

| | | | |
|---|---|---|---|
| Signal word | : | Danger | |
| Hazard statements | : | H314 | Causes severe skin burns and eye damage. |
| Precautionary statements | : | P102 | Keep out of reach of children. |
| | | **Prevention:** | |
| | | P260 | Do not breathe spray. |
| | | P264 | Wash skin thoroughly after handling. |
| | | P280 | Wear protective gloves/ eye protection. |
| | | **Response:** | |

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

**Disposal:**

P501 Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous components which must be listed on the label:
sodium hydroxide

Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Components**

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration (% w/w) |
|---|---|---|---|
| Substances with a workplace exposure limit : | | | |
| (2-methoxymethylethoxy)propanol | 34590-94-8<br>252-104-2<br>01-2119450011-60 | | >= 2 - < 5 |
| 2,2'-methyliminodiethanol | 105-59-9<br>203-312-7<br>603-079-00-5<br>01-2119488970-24 | Eye Irrit. 2; H319 | >= 5 - < 10 |
| 1-butoxypropan-2-ol | 5131-66-8<br>225-878-4<br>603-052-00-8<br>01-2119475527-28 | Eye Irrit. 2; H319<br>Skin Irrit. 2; H315<br>---<br>specific concentration limit<br>Eye Irrit. 2; H319<br>> 20 %<br>Skin Irrit. 2; H315<br>> 20 % | >= 2 - < 5 |
| Decanol, ethoxylated | 26183-52-8<br>500-046-6 | Eye Irrit. 2; H319<br>Acute Tox. 4; H302 | >= 2 - < 5 |
| sodium octyl sulphate | 142-31-4<br>205-535-5<br>01-2119966154-35 | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>---<br>specific concentration limit<br>Eye Irrit. 2; H319 | >= 1 - < 2 |

| | | | |
|---|---|---|---|
| | | 10 - < 20 %<br>Eye Dam. 1; H318<br>>= 20,0 % | |
| sodium hydroxide | 1310-73-2<br>215-185-5<br>011-002-00-6<br>01-2119457892-27 | Met. Corr. 1; H290<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>---<br>specific concentration limit<br>Skin Corr. 1A; H314<br>>= 5 %<br>Skin Corr. 1B; H314<br>2 - < 5 %<br>Skin Irrit. 2; H315<br>0,5 - < 2 %<br>Eye Irrit. 2; H319<br>0,5 - < 2 % | >= 1 - < 2 |
| Silicic acid, sodium salt | 1344-09-8<br>215-687-4<br>01-2119448725-31 | Eye Dam. 1; H318<br>Skin Irrit. 2; H315 | >= 1 - < 2 |
| Decan-1-ol.ethoxylated | 26183-52-8<br>500-046-6 | Eye Irrit. 2; H319 | >= 1 - < 2 |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : corrosive effects

Risks : No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

| | | |
|---|---|---|
| Treatment | : | For specialist advice physicians should contact the Poisons Information Service. |

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

| | | |
|---|---|---|
| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |

**5.2 Special hazards arising from the substance or mixture**

| | | |
|---|---|---|
| Specific hazards during firefighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | No hazardous combustion products are known |

**5.3 Advice for firefighters**

| | | |
|---|---|---|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

| | | |
|---|---|---|
| Personal precautions | : | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Evacuate personnel to safe areas. |

**6.2 Environmental precautions**

| | | |
|---|---|---|
| Environmental precautions | : | Do not flush into surface water or sanitary sewer system. |

**6.3 Methods and material for containment and cleaning up**

| | | |
|---|---|---|
| Methods for cleaning up | : | Neutralise with acid.<br>Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |

**6.4 Reference to other sections**

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Cleaning agent

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|---|---|---|
| (2-methoxymethylethoxy)propanol | Not Assigned | TWA | 50 ppm<br>308 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 50 ppm<br>308 mg/m3 | |
| | Further information: Dermal absorption possible | | | |
| | | | 100 ppm | |
| | Further information: Dermal absorption possible | | | |

| | | | | |
|---|---|---|---|---|
| | | STEL | 150 ppm | |
| | Further information: Dermal absorption possible | | | |
| | | | 100 ppm | |
| | Further information: Recommended exposure limit | | | |
| | | STEL | 150 ppm<br>900 mg/m3 | |
| | | STEL | 50 ppm<br>310 mg/m3 | |

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---|---|---|---|
| 2,2'-methyliminodiethanol | Workers | Inhalation | Long-term systemic effects | 7,9 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 5,6 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 0,4 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 0,67 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 0,13 mg/kg |
| 1-butoxypropan-2-ol | Workers | Inhalation | Long-term systemic effects | 147 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 52 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 43 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 22 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 12,5 mg/kg bw/day |
| (2-methoxymethylethoxy)propanol | Workers | Skin contact | Long-term systemic effects | 65 mg/kg |

| | | | | |
|---|---|---|---|---|
| | Workers | Inhalation | Long-term systemic effects | 310 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 15 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 1,67 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 37,2 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 308 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 283 mg/kg |
| | Consumers | Skin contact | Long-term systemic effects | 121 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 36 mg/kg |
| sodium octyl sulphate | Workers | Skin contact | Long-term systemic effects | 4060 mg/kg |
| | Workers | Inhalation | Long-term systemic effects | 285 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 2440 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 85 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 24 mg/kg |
| sodium hydroxide | Workers | Inhalation | Long-term local effects | 1,0 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects, Long-term local effects | 1,5 mg/m3 |
| | Workers | Inhalation | Short-term exposure, Local effects, Systemic effects | 3 mg/m3 |
| | Consumers | Inhalation | Long-term local effects, Long-term systemic effects | 0,6 mg/m3 |

| | | | | |
|---|---|---|---|---|
| | Consumers | Inhalation | Short-term exposure, Local effects, Systemic effects | 1,2 mg/m3 |
| | Consumers | Ingestion | Long-term local effects, Long-term systemic effects | 25 mg/m3 |
| Silicic acid, sodium salt | Workers | Skin contact | Long-term systemic effects | 1,59 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects | 5,61 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 0,8 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 1,38 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 0,8 mg/kg bw/day |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

| Substance name | Environmental Compartment | Value |
|---|---|---|
| 2,2'-methyliminodiethanol | Fresh water | 1 mg/l |
| | Marine water | 0,0045 mg/l |
| | Fresh water | 0,278 mg/l |
| | Marine water | 0,0278 mg/l |
| | Intermittent use/release | 1 mg/l |
| | Fresh water sediment | 2,17 mg/kg |
| | Marine sediment | 0,217 mg/kg |
| | Soil | 0,27 mg/kg |
| | STP | 10 mg/l |
| 1-butoxypropan-2-ol | Fresh water | 0,525 mg/l |
| | Marine water | 0,0525 mg/l |
| | Fresh water sediment | 2,36 mg/kg |
| | Marine sediment | 0,236 mg/kg |
| | Soil | 0,16 mg/kg |

| | | |
|---|---|---|
| | STP | 10 mg/l |
| | intermittent release | 5,25 mg/l |
| 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt, dihydrate | Fresh water | 0,44 mg/l |
| | Marine water | 0,044 mg/l |
| | STP | 1000 mg/l |
| | Fresh water sediment | 34,6 mg/kg |
| | Marine sediment | 3,46 mg/kg |
| | Soil | 33,1 mg/kg |
| (2-methoxymethylethoxy)propanol | Fresh water | 19 mg/l |
| | Marine water | 1,9 mg/l |
| | Fresh water sediment | 70,2 mg/kg |
| | Marine sediment | 7,02 mg/kg |
| | Soil | 2,74 mg/kg |
| | Water | 190 mg/l |
| | STP | 4168 mg/l |
| sodium octyl sulphate | Fresh water | 0,1357 mg/l |
| | Marine water | 0,01357 mg/l |
| | STP | 1,35 mg/l |
| | Fresh water sediment | 1,5 mg/kg |
| | Marine sediment | 0,15 mg/kg |
| | Soil | 0,22 mg/kg |
| Silicic acid, sodium salt | Fresh water | 7,5 mg/l |
| | Marine water | 1 mg/l |
| | intermittent release | 7,5 mg/l |
| | STP | 348 mg/l |

**8.2 Exposure controls**

**Personal protective equipment**

| | | |
|---|---|---|
| Eye/face protection | : | Tightly fitting safety goggles |
| Hand protection | | |
| Material | : | Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. |
| Remarks | : | Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). |
| Skin and body protection | : | Choose body protection according to the amount and concentration of the dangerous substance at the work place.<br>Remove and wash contaminated clothing before re-use. |
| Respiratory protection | : | Not required; except in case of aerosol formation.<br>Recommended Filter type:<br>ABEK-P3-filter |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | liquid |
| Colour | : | red, clear |
| Odour | : | characteristic |
| Melting point/freezing point | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Flammability (liquids) | : | No data available |
| Lower explosion limit | : | No data available |
| Upper explosion limit | : | No data available |
| Flash point | : | does not flash |

| | | |
|---|---|---|
| Ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| pH | : | ca. 13,2, 100 %<br>at 20 °C |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |
| Water solubility | : | soluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | No data available |
| Density | : | ca. 1,053 g/cm3 at 20 °C |
| Relative density | : | No data available |
| Relative vapour density | : | No data available |
| Particle characteristics | : | No data available |

**9.2 Other information**

none

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

| | | |
|---|---|---|
| Hazardous reactions | : | Stable under recommended storage conditions.<br>No decomposition if used as directed. |

**10.4 Conditions to avoid**

| | | |
|---|---|---|
| Conditions to avoid | : | No data available |

**10.5 Incompatible materials**

| | | |
|---|---|---|
| Materials to avoid | : | No data available |

**10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

**Acute toxicity**

**Product:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: > 2.000 mg/kg<br>Method: Calculation method |

**Components:**

**(2-methoxymethylethoxy)propanol**

**34590-94-8:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Dog): 7.500 mg/kg |
| | | LD50 (Rat): 5.130 mg/kg |
| | | LD50 (Rat): 5.135 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): 55 - 60 mg/l<br>Exposure time: 4 h |
| | | LC50 (Rat): 3,35 mg/l<br>Exposure time: 7 h |
| Acute dermal toxicity | : | LD50 Dermal (Rabbit): 19.000 mg/kg |
| | | LD50 Dermal (Rat): 9.500 mg/kg |
| | | LD50 (Rabbit): 9.510 mg/kg |
| | | LD50 (Rabbit): 14.000 mg/kg |

**2,2'-methyliminodiethanol**

**105-59-9:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): 4.680 mg/kg<br>Method: OECD Test Guideline 401 |
| Acute dermal toxicity | : | LD50 (Rabbit): > 2.000 mg/kg<br>Method: OECD Test Guideline 402 |
| | | LD50 (Rabbit): 5.990 mg/kg |

**1-butoxypropan-2-ol**

**5131-66-8:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 Oral (Rat, male and female): 3.300 mg/kg<br>Method: see user defined free text |

LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 651 mg/l
Exposure time: 4 h

LC50 (Rat): 3,5 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

**Decanol, ethoxylated**

**26183-52-8:**

Acute oral toxicity : LD50 Oral: > 2.000 mg/kg

**sodium octyl sulphate**

**142-31-4:**

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

**sodium hydroxide**

**1310-73-2:**

Acute oral toxicity : LD50 Oral (Rat): 2.000 mg/kg

**Silicic acid, sodium salt**

**1344-09-8:**

Acute oral toxicity : LD50 Oral (Rat): 3.400 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2,06 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

**Skin corrosion/irritation**

**Product:**

Remarks : Extremely corrosive and destructive to tissue.

**Components:**

**(2-methoxymethylethoxy)propanol**

**34590-94-8:**

Remarks : No skin irritation

**2,2'-methyliminodiethanol**

**105-59-9:**

Species : Rabbit

Method : OECD Test Guideline 404
Result : No skin irritation

**sodium octyl sulphate**

**142-31-4:**

Result : Skin irritation

**sodium hydroxide**

**1310-73-2:**

Result : Corrosive

**Silicic acid, sodium salt**

**1344-09-8:**

Result : Skin irritation

**Serious eye damage/eye irritation**

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**(2-methoxymethylethoxy)propanol**

**34590-94-8:**

Result : No eye irritation

**2,2'-methyliminodiethanol**

**105-59-9:**

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritating to eyes.

**sodium octyl sulphate**

**142-31-4:**

Result : Causes serious eye damage.

**sodium hydroxide**

**1310-73-2:**

Result : Corrosive

**Silicic acid, sodium salt**

**1344-09-8:**

Method : OECD Test Guideline 405
Result : Causes serious eye damage.

**Respiratory or skin sensitisation**

**Product:**

Remarks : No data available

**Components:**

**(2-methoxymethylethoxy)propanol**

**34590-94-8:**

Result : Does not cause skin sensitisation.

**2,2'-methyliminodiethanol**

**105-59-9:**

Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

**Components:**

**(2-methoxymethylethoxy)propanol**

**34590-94-8:**

Species : Rat
NOAEL : 1.000 mg/kg
Application Route : Oral
Exposure time : 28 d

**sodium octyl sulphate**

**142-31-4:**

Species : Rat
NOAEL : 488 mg/kg
Application Route : Oral
Method : OECD Test Guideline 408

Species : Rat
LOAEL : 1016 mg/kg
Application Route : Oral
Method : OECD Test Guideline 408

Species : Mouse

| | | |
|---|---|---|
| NOAEL | : | 400 mg/kg |
| Application Route | : | Dermal |
| Method | : | OECD Test Guideline 411 |

Aspiration toxicity : Not Rated

### 11.2 Information on other hazards

**Further information**

**Product:**

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**(2-methoxymethylethoxy)propanol**

**34590-94-8:**

Toxicity to fish : (Pimephales promelas (fathead minnow)): > 10.000 mg/l
Exposure time: 96 h
Test Type: static test

(Poecilia reticulata (guppy)): > 1.000 mg/l
Exposure time: 96 h
Test Type: static test

(Fish): > 1.000 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.919 mg/l
Exposure time: 48 h
Test Type: static test

EC50 (Crangon crangon (shrimp)): > 1.000 mg/l
Exposure time: 96 h
Test Type: semi-static test

NOEC (Daphnia magna (Water flea)): > 0,5 mg/l
Exposure time: 22 d

Toxicity to algae/aquatic plants : (Pseudokirchneriella subcapitata (microalgae)): > 969 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

(Selenastrum capricornutum): 1.000 mg/l
Exposure time: 72 h

EC50 (Skeletonema costatum (marine diatom)): 6.999 mg/l
Exposure time: 72 h

EC50 (Selenastrum capricornutum (green algae)): 969 mg/l
Exposure time: 96 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 969 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC10 (Pseudomonas putida): 4.168 mg/l
Exposure time: 18 h
Test Type: Growth inhibition

EC50 (No data available): > 100 mg/l

EC20 (activated sludge): > 1.000 mg/l
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 12 mg/l
Species: Daphnia magna (Water flea)

NOEC: > 0,5 mg/l
Exposure time: 22 d
Species: Daphnia magna (Water flea)

Lowest Observed Effect Concentration: > 0,5 mg/l
Exposure time: 22 d
Species: Daphnia magna (Water flea)

**2,2'-methyliminodiethanol**

**105-59-9:**

Toxicity to fish : (Leuciscus idus (Golden orfe)): 1.466 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 233 mg/l
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 6,25 mg/l
Exposure time: 72 h

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC20 (activated sludge): > 1.000 mg/l
Exposure time: 0,5 h
Method: OECD Test Guideline 209

**1-butoxypropan-2-ol**

**5131-66-8:**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 560 - 1.000 mg/l
Exposure time: 96 h

NOEC (Poecilia reticulata (guppy)): 180 mg/l
Exposure time: 96 h

LC50 (Fish): 1.000 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h

EC50 (Fish): < 320 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 560 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1.000 mg/l
Exposure time: 96 h
Test Type: Cell multiplication inhibition test

NOEC (Selenastrum capricornutum): 560 mg/l
Exposure time: 96 h

Toxicity to microorganisms : EC50 (Bacteria): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

**Decanol, ethoxylated**
**26183-52-8:**

Toxicity to fish : LC50 : 1 - 10 mg/l
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 13,5 mg/l
Test Type: Immobilization
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : (Desmodesmus subspicatus (green algae)): 12,0 mg/l
Test Type: Growth inhibition
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC0 (Bacteria): > 100 mg/l

**sodium octyl sulphate**
**142-31-4:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 : > 100 mg/l

EC50 (Desmodesmus subspicatus (green algae)): > 511 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC0 : > 100 mg/l

Toxicity to fish (Chronic toxicity) : Lowest Observed Effect Concentration: > 1,357 mg/l
Exposure time: 42 d
Species: Pimephales promelas (fathead minnow)

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 1,4 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211 |

**sodium hydroxide**

**1310-73-2:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Fish): 33 - 189 mg/l<br>Exposure time: 96 h<br><br>LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l<br>Exposure time: 96 h<br><br>LC50 (Poecilia reticulata (guppy)): 76 mg/l<br>Exposure time: 24 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia (water flea)): 40,4 mg/l<br><br>EC50 (Daphnia magna (Water flea)): 76 mg/l<br>Exposure time: 24 h<br><br>EC50 (Ceriodaphnia (water flea)): 40,4 mg/l<br>Exposure time: 48 h<br>Test Type: Immobilization |
| Toxicity to microorganisms | : | EC50 (Photobacterium phosphoreum): 22 mg/l<br>Exposure time: 15 min |

**Silicic acid, sodium salt**

**1344-09-8:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Brachydanio rerio): 1.108 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br><br>LC50 (Danio rerio (zebra fish)): > 100 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 1.700 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202 |
| Toxicity to microorganisms | : | EC0 (Pseudomonas putida): > 1.000 mg/l<br>Exposure time: 48 h |

**Decan-1-ol.ethoxylated**

**26183-52-8:**

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia (water flea)): 7,2 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EC50 (algae): 4,2 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |

**12.2 Persistence and degradability**

**Components:**

**(2-methoxymethylethoxy)propanol**

**34590-94-8:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD 301 E

Biodegradation: 75 %
Exposure time: 28 d
Method: OECD 301 F

Biodegradation: 93 %
Exposure time: 13 d
Method: OECD 302 B

Biodegradation: 91 %
Exposure time: 28 d
Method: EN ISO 14593: CO2-Headspace-Test

Biodegradation: 75 %
Exposure time: 10 d
Method: OECD 301 F

**2,2'-methyliminodiethanol**

**105-59-9:**

Biodegradability : Result: rapidly biodegradable
Biodegradation: 96 %
Exposure time: 18 d
Method: OECD 301 A

**1-butoxypropan-2-ol**

**5131-66-8:**

Biodegradability : Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301 E
Remarks: Readily biodegradable, according to appropriate OECD test.

**Decanol, ethoxylated**

**26183-52-8:**

Biodegradability : Biodegradation: 89 %
Exposure time: 28 d
Method: OECD 301 F

**sodium octyl sulphate**

**142-31-4:**

Biodegradability : Biodegradation: 98,2 %
Remarks: Expected to be biodegradable

**sodium hydroxide**

**1310-73-2:**

Biodegradability : Result: Biodegradable

Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

**Components:**

**(2-methoxymethylethoxy)propanol**

**34590-94-8:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 1,01

**1-butoxypropan-2-ol**

**5131-66-8:**

Bioaccumulation : Bioconcentration factor (BCF): < 100
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3,2

log Pow: 1,2 (20 °C)
pH: 7

**sodium hydroxide**

**1310-73-2:**

Bioaccumulation : Species: Fish
Remarks: No bioaccumulation is to be expected (log Pow <= 4).

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:**

**(2-methoxymethylethoxy)propanol**

**34590-94-8:**

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

**12.6 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects**

**Product:**

Additional ecological information : There is no data available for this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | | |
|---|---|---|
| Product | : | Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>In accordance with local and national regulations. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers. |
| Waste Code | | European Waste Catalogue<br>20 01 29*<br>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. |

## SECTION 14: Transport information

### 14.1 UN number or ID number

| | | |
|---|---|---|
| **ADR** | : | 3267 |
| **IMDG** | : | 3267 |
| **IATA** | : | 3267 |

### 14.2 UN proper shipping name

| | | |
|---|---|---|
| **ADR** | : | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium hydroxide) |
| **IMDG** | : | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium hydroxide) |
| **IATA** | : | Corrosive liquid, basic, organic, n.o.s. |

### 14.3 Transport hazard class(es)

| | | |
|---|---|---|
| **ADR** | : | 8 |
| **IMDG** | : | 8 |
| **IATA** | : | 8 |

### 14.4 Packing group

| | | |
|---|---|---|
| **ADR** | | |
| Classification Code | : | C7 |
| Packaging group | : | III |
| Hazard Identification Number | : | 80 |
| Labels | : | 8 |
| Tunnel restriction code | : | (E) |
| **IMDG** | | |
| Packaging group | : | III |
| Labels | : | 8 |
| EmS Number | : | F-A, S-B |
| **IATA** | | |
| **(Cargo)** | : | Corrosive liquid, basic, organic, n.o.s. |
| **(Passenger)** | : | Corrosive liquid, basic, organic, n.o.s. |
| Packaging group | : | III |
| Labels | : | 8 |

### 14.5 Environmental hazards

**ADR**

Environmentally hazardous : no

**IMDG**
Marine pollutant : no
**IATA**
Environmentally hazardous : no

**14.6 Special precautions for user**
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments
Not applicable for product as supplied.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany)
: Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapour or gaseous form: : portionClass 3: 0,02 %
: Organic Substances: Not applicable
: Carcinogenic substances: Not applicable
: Mutagenic: Not applicable
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Update: Percent volatile: 5 %
296,16 g/l
VOC content excluding water

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Update: Percent volatile: 5 %
52,7 g/l
VOC content valid only for coating materials used on wood surfaces

| | | |
|---|---|---|
| according to Detergents Regulation EC 648/2004 | : | <5% anionic surfactants, non-ionic surfactants |
| GISBAU (D) | : | GG 80 |

**15.2 Chemical safety assessment**

## SECTION 16: Other information

**Full text of H-Statements**

| | | |
|---|---|---|
| H290 | : | May be corrosive to metals. |
| H302 | : | Harmful if swallowed. |
| H314 | : | Causes severe skin burns and eye damage. |
| H315 | : | Causes skin irritation. |
| H318 | : | Causes serious eye damage. |
| H319 | : | Causes serious eye irritation. |

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Eye Dam. | : | Serious eye damage |
| Eye Irrit. | : | Eye irritation |
| Met. Corr. | : | Corrosive to metals |
| Skin Corr. | : | Skin corrosion |
| Skin Irrit. | : | Skin irritation |
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2000/39/EC / TWA | : | Limit Value - eight hours |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory;

TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

| **Classification of the mixture:** | | **Classification procedure:** |
|---|---|---|
| Skin Corr. 1A | H314 | Based on product data or assessment |
| Eye Dam. 1 | H318 | Based on product data or assessment |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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